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The Interstellar Environment of Filled-Center Supernova Remnants. III. The Crab Nebula. B. J. Wallace, T. L. Landecker, P. M. W. Kalberla, & A. R. Taylor. 124, 181 (1999)

ISM: GENERAL

The Interstellar Environment of Filled-Center Supernova Remnants. III. The Crab Nebula. B. J. Wallace, T. L. Landecker, P. M. W. Kalberla, & A. R. Taylor. 124, 181 (1999)

The Diffuse Interstellar Clouds toward 23 Orionis. Daniel E. Welty, L. M. Hobbs, James T. Lauroesch, Donald C. Morton, Lyman Spitzer, & Donald G. York. 124, 465 (1999)

ISM: H II REGIONS

Molecular Gas in the NGC 6334 Star Formation Region. Kathleen E. Kraemer & James M. Jackson. 124, 439 (1999)

ISM: INDIVIDUAL

Name: Crab Nebula

The Interstellar Environment of Filled-Center Supernova Remnants. III. The Crab Nebula. B. J. Wallace, T. L. Landecker, P. M. W. Kalberla, & A. R. Taylor. 124, 181 (1999)

NGC Number: NGC 6334

Molecular Gas in the NGC 6334 Star Formation Region. Kathleen E. Kraemer & James M. Jackson. 124, 439 (1999)

ISM: KINEMATICS AND DYNAMICS

Molecular Gas in the NGC 6334 Star Formation Region. Kathleen E. Kraemer & James M. Jackson. 124, 439 (1999)

ISM: MOLECULES

Investigating the Near-Infrared Properties of Planetary Nebulae. II. Medium-Resolution Spectra. Joseph L. Hora, William B. Latter, & Lynne K. Deutsch. 124, 195 (1999)

ISM: PLANETARY NEBULAE: GENERAL

Investigating the Near-Infrared Properties of Planetary Nebulae. II.

Medium-Resolution Spectra. Joseph L. Hora, William B. Latter, &
Lynne K. Deutsch. 124, 195 (1999)

ISM: STRUCTURE

Investigating the Near-Infrared Properties of Planetary Nebulae. II.

Medium-Resolution Spectra. Joseph L. Hora, William B. Latter, &
Lynne K. Deutsch. 124, 195 (1999)

ISM: SUPERNOVA REMNANTS

The Interstellar Environment of Filled-Center Supernova Remnants. III. The Crab Nebula. B. J. Wallace, T. L. Landecker, P. M. W. Kalberla, & A. R. Taylor. 124, 181 (1999)

LINE: IDENTIFICATION

Oscillator Strengths and Damping Constants for Atomic Lines in the J and H Bands. Jorge Meléndez & Beatriz Barbuy. 124, 527 (1999)

METHODS: NUMERICAL

The Forest Method as a New Parallel Tree Method with the Sectional Voronoi Tessellation. *Hideki Yahagi, Masao Mori, & Yuzuru Yoshii.* 124, 1 (1999) Integration of Nuclear Reaction Networks for Stellar Hydrodynamics. *F. X. Timmes.* 124, 241 (1999)

MOLECULAR DATA

Oscillator Strengths and Damping Constants for Atomic Lines in the J and H Bands. Jorge Meléndez & Beatriz Barbuy. 124, 527 (1999)

MOLECULAR PROCESSES

Investigating the Near-Infrared Properties of Planetary Nebulae. II. Medium-Resolution Spectra. Joseph L. Hora, William B. Latter, & Lynne K. Deutsch. 124, 195 (1999)

NUCLEAR REACTIONS, NUCLEOSYNTHESIS, ABUNDANCES

Integration of Nuclear Reaction Networks for Stellar Hydrodynamics. F. X. Timmes. 124, 241 (1999)

POLARIZATION

VLA Images at 5 GHz of 212 Southern Extragalactic Objects. R. I. Reid, P. P. Kronberg, & R. A. Perley. 124, 285 (1999)

RADIO CONTINUUM: GALAXIES

VLA Images at 5 GHz of 212 Southern Extragalactic Objects. R. I. Reid, P. P. Kronberg, & R. A. Perley. 124, 285 (1999)

RADIO LINES: ISM

The Interstellar Environment of Filled-Center Supernova Remnants. III. The Crab Nebula. B. J. Wallace, T. L. Landecker, P. M. W. Kalberla, & A. R. Taylor. 124, 181 (1999)

Molecular Gas in the NGC 6334 Star Formation Region. Kathleen E. Kraemer & James M. Jackson. 124, 439 (1999)

STARS: FORMATION

Molecular Gas in the NGC 6334 Star Formation Region. Kathleen E. Kraemer & James M. Jackson. 124, 439 (1999)

STARS: INDIVIDUAL

Constellation Name: Cygnus X-1

Quasi-periodic Oscillations in Black Hole Candidates as an Indicator of Transition between Low and High States. Robert E. Rulledge, Walter H. G. Lewin, Michiel van der Klis, Jan van Paradijs, Tadayasu Dotani, Brian Vaughan, Tomaso Belloni, Tim Oosterbroek, & Chryssa Kouveliotou. 124, 265 (1999)

Constellation Name: 23 Orionis

The Diffuse Interstellar Clouds toward 23 Orionis. Daniel E. Welty, L. M. Hobbs, James T. Lauroesch, Donald C. Morton, Lyman Spitzer, & Donald G. York. 124, 465 (1999)

Alphanumeric: GS 1124-68

Quasi-periodic Oscillations in Black Hole Candidates as an Indicator of Transition between Low and High States. Robert E. Rulledge, Walter H. G. Lewin, Michiel van der Klis, Jan van Paradijs, Tadayasu Dotani, Brian Vaughan, Tomaso Belloni, Tim Oosterbroek, & Chryssa Kouveliotou. 124, 265 (1999)

Alphanumeric: GX 339-4

Quasi-periodic Oscillations in Black Hole Candidates as an Indicator of Transition between Low and High States. Robert E. Rutledge, Walter H. G. Lewin, Michiel van der Klis, Jan van Paradijs, Tadayasu Dotani, Brian Vaughan, Tomaso Belloni, Tim Oosterbroek, & Chryssa Kouveliotou. 124, 265 (1999)

STARS: INTERIORS

Integration of Nuclear Reaction Networks for Stellar Hydrodynamics. F. X. Timmes. 124, 241 (1999)

V

STARS: OSCILLATIONS

Quasi-periodic Oscillations in Black Hole Candidates as an Indicator of Transition between Low and High States. Robert E. Rulledge, Walter H. G. Lewin, Michiel van der Klis, Jan van Paradijs, Tadayasu Dotani, Brian Vaughan, Tomaso Belloni, Tim Oosterbroek, & Chryssa Kouveliotou. 124, 265 (1999)

STARS: SUPERNOVAE: GENERAL

Positron Escape from Type Ia Supernovae. P. A. Milne, L.-S. The, & M. D. Leising, 124, 503 (1999)

TECHNIQUES: IMAGE PROCESSING

Difference Image Analysis of Galactic Microlensing. II. Microlensing Events. C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, A. C. Becker, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Stutherland, A. Tomaney, T. Vandehei, & D. L. Welch (The

MACHO Collaboration). 124, 171 (1999)

ULTRAVIOLET: GALAXIES

Hubble Space Telescope Imaging of the Host Galaxies of High-Redshift Radio-loud Quasars. Matthew D. Lehnert, Wil J. M. van Breugel, Timothy M. Heckman, & George K. Miley. 124, 11 (1999)

ULTRAVIOLET: ISM

The Diffuse Interstellar Clouds toward 23 Orionis. Daniel E. Welty, L. M. Hobbs, James T. Lauroesch, Donald C. Morton, Lyman Spitzer, & Donald G. York. 124, 465 (1999)

X-RAYS: STARS

Quasi-periodic Oscillations in Black Hole Candidates as an Indicator of Transition between Low and High States. Robert E. Rulledge, Walter H. G. Lewin, Michiel van der Klis, Jan van Paradijs, Tadayasu Dotani, Brian Vaughan, Tomaso Belloni, Tim Oosterbroek, & Chryssa Kouveliotou. 124, 265 (1999)



